

## ABSTRACT

A surface of a first ceramic component is joined to a surface of a second ceramic component using a silver-based composition. The silver-based composition is a mixture of silver metal and a metal oxide and the metal in the metal oxide is a metal other than silver. The silver-based composition is applied to the surface of the first ceramic component and to the surface of the second ceramic component. The silver-based composition applied to the first ceramic component is contacted to the silver-based composition applied to the second ceramic component. The surfaces of the first and second ceramic components are heated to melt the applied silver-based compositions. The surfaces of the first and second ceramic components are cooled to form a bond between the first and second ceramic components.

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